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Montana Labor Supply/Demand Analysis

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MONTANA LABOR SUPPLY/DEMAND ANALYSIS
QUARTERLY REPORT

OCTOBER, 1980 THROUGH DECEMBER, 1980

STATE OF MONTANA
TED SCHWINDEN, GOVERNOR

DEPARTMENT OF LABOR AND INDUSTRY
DAVID L. HUNTER, COMMISSIONER

EMPLOYMENT SECURITY DIVISION
FRED BARRETT, ADMINISTRATOR

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Introduction

This publication features data relating to labor supply and demand for the state of Montana. The data as reported cover the time period of October 1, 1980 through December 31, 1980. All data are reported on a statewide basis.

Description of Area

Geographically, Montana is the fourth largest state encompassing 147,138 square miles. The state's total population, however, is only 786,690 yielding a density of about 5.4 people per square mile. Almost half (47.8%) of the population is clustered around nine communities in the state. Seven of these population centers are in the more scenic, mountainous regions of western Montana.

Montana is bordered by North and South Dakota to the east, Wyoming to the south, and Idaho to the west. To the north, it shares an international boundary with Canada. The Rocky Mountains run north and south through the western part of the state. Very few mountain ranges are found in the eastern portion of the state.

The climate of the state varies with altitude. The average annual precipitation is 15.33 inches; however, geographically, it varies from a low of 9.55 inches in the southern part of the state to a high of 39.22 inches on the western slopes of the Continental Divide. Average maximum daytime temperatures in Montana cities range from 19.4 F in January to 68.0 F in July. Large temperature fluctuations throughout the year are common.

The climate, the remoteness, and the lack of transportation limit the attractiveness of the state for industrial development. Thus, Montana's economy is dependent upon its natural resources: soil, minerals, forests, and scenic beauty. Lumber and recreation related services are major sources of revenue in western Montana, while agriculture dominates the east. Mineral production is important to the state as a whole.

Montana's economy suffered two major blows in the third quarter of 1980. A major wood products firm permanently closed down in Missoula costing the community over 300 jobs. The lumber industry has been hit hard this past year. Inflation and high interest rates have forced cutbacks in construction. Consequently, there have been periodic layoffs within the lumber industry. However, none of the layoffs were as damaging as the permanent closure of the Missoula plant. As a result of the closure, the unemployment rate for the Missoula area as of December, 1980 is 8.2%.

The second setback to the economy of Montana was the closure of copper smelting facilities in Anaconda and Great Falls resulting in a loss of approximately 1,500 jobs. The community of Anaconda was probably the hardest hit as a result of the smelter closures. Since the community was basically a "company town", there are not enough other jobs in the area to absorb these displaced workers. Butte and Great Falls also

felt more than a slight economic twinge with the loss of mining-related jobs in those communities. Unlike Anaconda, however, they do have other industry and will not be hurt to the extent that Anaconda was. The unemployment rate for the Anaconda-Butte area is 7.6 and for Great Falls is 7.3 as of December, 1980.

The problems facing Montana's labor force and industry are somewhat apparent in the geography of the state. As previously indicated, the climate and remote location of the state are not conducive to the attraction of outside industry. For the most part, Montanans are attracted to the larger communities of western Montana. Unfortunately, however, the available jobs are not presently in these areas. Hundreds of miles separate the potential workers from the energy-related job opportunities in the rural areas of eastern Montana.

Montana's civilian labor force in December, 1980 was 364,700 people. At that same time the unemployment rate was 5.2% (not seasonally adjusted).

Limitations of Data

The data presented in this report are rather limited for many reasons. A complete and accurate file of all labor supply and demand data is not readily available. Most of the data presented are taken from the ESARS system, which represents only a small portion of the actual labor supply and demand factors.

The ESARS system in itself has many limitations. Applicants may be registered under one DOT code, although they are actually seeking work in a different classification. This causes an overstatement of supply in one DOT category and an understatement in others. "Active" applicants at the end of a quarter may have been "hired" based on a referral during that quarter. This is due to a paper lag in the system or verification of the hire has been held back pending actual entry on the job. Similarly, the operational procedures can affect the report of "unfilled jobs". A lag in paperwork concerning job placement or cancellation can cause a discrepancy in the category.

The data are presented on a statewide basis. Consequently, the demand occupations listed in Table 8 are a subset of Table 4, which lists occupations with a surplus of applicants.

All of the 917 job openings listed in Table 8 theoretically could be filled by qualified applicants listed in Table 4 if the distance between population centers and job sites was not so great. The information provided in these tables would be more beneficial to users if it were broken down into smaller geographic areas.

Labor Supply Analysis

Tables 1 through 4 of this document present the information concerning the labor supply as registered with the Job Service in the state of Montana. Table 1 presents the characteristics of active Job Service applicants. Almost two-thirds of the 25,531 persons registered are male;

approximately, half of the applicants fall in the age range of 22 to 34 years. Most of the applicants (73.9%) have at least a high school education. The bulk of the applicants (91.8%) indicated they were not presently working. Almost a third have unemployment claims filed.

Total available applicants at the end of the quarter by occupational category and characteristics are given in Tables 2 and 3. Partial applicants are not included in these data, thus reducing the active applicants total by 837. Partial applicants, however, do receive equal service from the Job Service.

The four largest occupational categories of applicants are Clerical and Sales (5,284), Services (4,991), Structural (4,589),and Miscellaneous (3,866). These four categories comprise 75.8% of the available applicants. Females comprise 76.7% of Clerical and Sales applicants and 67.3% of Services, while males dominate Structural and Miscellaneous with 97.4% and 92.7% respectively. A little more than 50% of the economically disadvantaged applicants are registered in categories dominated by female applicants--Clerical, Sales and Service. Almost 97% of the applicants are considered fully qualified for the jobs for which they are registered, leaving only 3% as entry level applicants.

Table 4 provides a listing of occupations which have ten or more applicants registered with Job Service. Some of the applicants are registered due to seasonal shutdowns. These include construction workers, electricians, operating engineers, truck drivers, etc. Many of the lumber industry registrants are a result of seasonality as well as a slow economy. A number of the skilled workers, material handlers, and laborers are registered due to the closing of the two smelters previously discussed.

Labor Demand

Tables 5 through 8 of the document present labor demand information for the quarter. Tables 9 through 14.provide information concerning projected labor demand for the year 1985. The latter set of tables is presented for the user's information, and an analysis will not be provided.

Table 5 shows employment by non-farm industry as of December, 1980. In analyzing the table, it is quite apparent that the bulk of the employment (64.8%) is in the industries of Retail Trade, Services and Miscellaneous, and Public Administration.

Job openings available by industry for the quarter are outlined in Tables 6 and 7. Over half of the openings received (56.2%) and openings filled (55.9%) were in Retail Trade and Services. Typically, these jobs have high turnover rates due to low pay, odd hours of work, lack of career ladder, and poor working conditions. Some sales positions have the added factor of working on a commission basis. Almost half (43.7%) of the positions unfilled at the end of the quarter are in Clerical, Sales and Services.

Table 8 provides a listing of occupations which had ten or more openings at the end of the quarter. Here again the data show the bulk of the openings (61.6%) to be in occupations generally found in Clerical, Sales and Services. It is surprising that 126 vacancies (13.5%) are teaching positions when there is a surplus of teachers listed in Table 4. Here again the distribution of workers within the state provide the answer.

TABLE 1

CHARACTERISTICS OF ACTIVE JOB SERVICE APPLICANTS

END OF QUARTER -- DECEMBER 31, 1980

CHARACTERISTICS OF APPLICANTS	TOTAL	PERCENT OF TOTAL
Total	25,531	100.0
Sex		
Male	15,903	62.3
Female	9,628	37.7
Age		
15 and Under	90	0.4
16 - 17	683	2.7
18 - 19	2,181	8.5
20 - 21	2,540	9.9
22 - 24	3,808	14.9
25 - 29	5,153	20.2
30 - 34	3,695	14.5
35 - 39	2,257	8.8
40 - 44	1,632	6.4
45 - 54	2,125	8.3
55 - 64	1,230	4.8
65 and Over	137	0.5
Education		
0 - 7	455	1.8
8 - 11	6,188	24.2
12	11,829	46.3
Over 12	7,059	27.6

SOURCE: ESARS TABLE 06.

TABLE 1 (cont.)

CHARACTERISTICS OF ACTIVE JOB SERVICE APPLICANTS

END OF QUARTER -- DECEMBER 31, 1980

CHARACTERISTICS OF APPLICANTS	TOTAL	PERCENT OF TOTAL
Employment Status		
Full Time	1,198	4.7
Part Time	894	3.5
Not Working	23,439	91.8
Other Characteristics		
Minority	2,619	10.3
Veteran	6,534	25.6
Claimant	7,790	30.5
Handicapped	2,041	8.0

TABLE 2

TOTAL AVAILABLE JOB SERVICE APPLICANTS*

END OF QUARTER -- DECEMBER 31, 1980

OCCUPATION	TOTAL	PERCENT OF TOTAL	FULLY QUALIFIED APPLICANTS	PERCENT OF TOTAL	ENTRY LEVEL APPLICANTS	PERCENT CHANGE
Total	24,694	100.0	23,894	100.0	734	100.0
Prof., Tech., Mgr.	2,601	10.5	2,528	10.6	73	9.9
Clerical, Sales	5,284	21.4	5,007	21.0	277	37.7
Service	4,991	20.2	4,814	20.1	177	24.1
Agricultural	1,269	5.1	1,247	5.2	22	3.0
Processing	268	1.1	265	1.1	3	0.4
Machine Trades	1,517	6.1	1,487	6.2	30	4.1
Bench Work	243	1.0	241	1.0	2	0.3
Structural	4,589	18.6	4,517	18.9	72	9.8
Miscellaneous	3,866	15.6	3,788	15.9	78	10.6
Invalid Codes	66	0.3				

* Does not include partial applications.
SOURCE: ESARS TABLE 96.

TABLE 3

CHARACTERISTICS OF JOB SERVICE APPLICANTS BY OCCUPATIONAL CATEGORY

END OF QUARTER -- DECEMBER 31, 1980

CHARACTERISTICS OF APPLICANTS	TOTAL	PROFESSIONAL TECHNICAL & MANAGER	CLERICAL & SALES	SERVICE	AGRICULTURE FISHERIES & FORESTRY	PROCESSING	MACHINE TRADES	BENCH WORK	STRUCTURAL	MISCEL-LANEOUS	MISCODED
TOTAL	24,694	2,601	5,284	4,991	1,269	268	1,517	243	4,589	3,866	66
SEX											
MALE	15,327	1,514	1,232	1,630	1,088	213	1,400	149	4,470	3,584	47
FEMALE	9,367	1,087	4,052	3,361	181	155	117	94	119	282	19
AGE											
UNDER 22	5,257	98	1,214	1,549	316	46	223	24	789	986	12
22-44	16,108	2,100	3,406	2,727	753	165	1,089	173	3,240	2,414	41
45 and OLDER	3,329	403	664	715	200	57	205	46	560	466	13
OTHER											
MINORITY	2,478	184	385	691	158	22	76	44	576	333	9
VETERAN	6,331	755	605	549	382	89	679	74	1,812	1,363	23
ECONOMICALLY DISADVANTAGED	5,994	328	1,116	1,971	334	70	275	61	914	905	20

* Excludes applicants whose status is unknown.

SOURCE: ESARS TABLE 96.

TABLE 4
ACTIVE JOB SERVICE APPLICANTS
OCCUPATIONS WITH 10 OR MORE APPLICANTS
END OF QUARTER - DECEMBER 31, 1980

DOT CODE	OCCUPATIONAL TITLE	TOTAL ACTIVE APPLICANTS END OF QUARTER
001-261-010	Drafter, Architectural	16
003-161-014	Electronics Technician	28
005-061-014	Civil Engineer	13
012-167-066	Systems Analyst	14
022-061-010	Chemist	13
040-061-034	Forester	34
041-061-030	Biologist	16
045-107-010	Counselor	81
075-374-010	Nurse, General Duty	39
079-371-010	Dental Assistant	34
079-374-014	Nurse, Licensed Practical	65
090-227-010	Faculty Member, College, University	13
091-227-010	Teacher, Secondary School	102
092-227-010	Teacher, Elementary School	80
110-107-010	Lawyer	14
160-167-010	Accountant	72
163-167-018	Manager, Sales	27
165-067-010	Public Relations Representative	11
169-167-010	Administrative Assistant	124
169-167-034	Manager, Office	53
185-167-046	Manager, Retail Store	111
187-167-106	Manager, Food Service	43
187-167-034	Security Officer	24
195-107-010	Caseworker	20
195-107-022	Social Group Worker	10
201-362-010	Legal Secretary	29
201-362-014	Medical Secretary	12
201-362-030	Secretary	277
202-362-014	Stenographer	10
203-362-010	Clerk Typist	176
203-582-030	Keypunch Operator	48
203-582-066	Typist	10
206-362-010	File Clerk I	22
209-562-010	Clerk, General	615

SOURCE: ESARS TABLE 96.

TABLE 4 (cont.)
ACTIVE JOB SERVICE APPLICANTS
OCCUPATIONS WITH 10 OR MORE APPLICANTS
END OF QUARTER - DECEMBER 31, 1980

DOT CODE	OCCUPATIONAL TITLE	TOTAL ACTIVE APPLICANTS END OF QUARTER
209-587-026	Mail Clerk	12
210-382-010	Audit Clerk	14
210-382-014	Bookkeeper	298
210-382-016	Bookkeeper II	60
211-362-010	Cashier I	29
211-362-018	Teller	47
211-462-010	Cashier II	249
213-362-010	Computer Operator	32
216-482-010	Accounting Clerk	36
219-362-010	Administrative Clerk	431
222-387-058	Stock Clerk	105
235-462-010	Switchboard Operator	19
235-662-022	Telephone Operator	20
237-367-038	Receptionist	198
238-362-010	Hotel Clerk	59
249-367-074	Teacher's Aide	44
261-357-066	Sales, Women Apparel	14
273-353-010	Sales, Auto	26
279-357-050	Sales, General Hardware	15
279-357-054	Sales, General Merchandise	264
279-357-062	Sales, Parts	31
290-477-014	Sales Clerk	594
290-477-018	Sales Clerk, Food	38
292-353-010	Driver, Sales Route	47
299-357-014	Telephone Solicitor	11
301-474-010	House Worker General	95
309-677-010	Companion, Domestic Service	14
311-477-014	Counter Attendant	451
312-474-010	Bartender	329
313-131-014	Chef (Hotel & Restaurant)	11
313-361-014	Cook (Hotel & Restaurant)	383
313-361-022	Cook, Short Order	88
315-361-010	Cook	57

TABLE 4 (cont.)
ACTIVE JOB SERVICE APPLICANTS
OCCUPATIONS WITH 10 OR MORE APPLICANTS
END OF QUARTER - DECEMBER 31, 1980

DOT CODE	OCCUPATIONAL TITLE	TOTAL ACTIVE APPLICANTS END OF QUARTER
316-684-018	Meat Cutter	52
317-687-010	Cook's Helper	11
318-687-010	Kitchen Helper	446
323-687-014	Cleaner, Housekeeper	269
332-271-010	Cosmetologist	25
355-377-014	Psychiatric Aide	17
355-674-014	Child Care Attendant	342
355-674-018	Orderly	17
359-677-018	Nursery School Attendant	22
361-687-018	Laundry Laborer	33
372-667-034	Security Guard	44
372-667-038	Merchant Patroller	25
373-364-010	Fire Fighter	17
375-263-014	Police Officer	47
382-664-010	Janitor	410
509-686-010	Laborer, General	40
526-381-010	Baker	19
529-687-186	Sorter, Agricultural Produce	12
600-280-022	Machinist	89
620-261-010	Automobile Mechanic	264
620-261-022	Construction Equipment Mechanic	35
621-281-014	Airframe-and-Power-Plant Mechanic	24
625-281-010	Diesel Mechanic	112
625-281-034	Small Engine Mechanic	19
638-281-014	Maintenance Mechanic	55
638-281-018	Millwright	28
660-280-010	Cabinetmaker	15
785-261-010	Alteration Tailor	11
787-682-046	Sewing Machine Operator	19
804-281-010	Sheet Metal Worker	26
805-261-014	Boilermaker	40
807-381-010	Automobile-Body Repairer	67
819-384-010	Welder, Combination	223

TABLE 4 (cont.)
ACTIVE JOB SERVICE APPLICANTS
OCCUPATIONS WITH 10 OR MORE APPLICANTS
END OF QUARTER - DECEMBER 31, 1980

DOT CODE	OCCUPATIONAL TITAL	TOTAL ACTIVE APPLICANTS END OF QUARTER
824-261-010	Electrician	136
828-281-010	Electronics Mechanic	28
840-664-010	Painter	90
842-664-010	Taper	13
844-364-010	Cement Mason	43
859-683-010	Operating Engineer	383
860-381-022	Carpenter	510
861-381-018	Bricklayer	29
862-381-010	Aircraft Mechanic (Plumbing-Hydral)	30
862-381-018	Pipefitter	34
862-381-030	Plumber (Construction)	43
866-381-010	Roofer	43
869-664-014	Construction Worker	864
899-381-010	Maintenance Repairer	104
904-383-010	Tractor-Trailer Truck Driver	206
905-663-014	Truck Driver, Heavy	489
906-683-022	Truck Driver, Light	205
913-463-010	Bus Driver	42
915-467-010	Auto Service Station Attendant	156
920-587-018	Packager, Hand	22
920-687-014	Bagger	33
929-683-010	Logging Tractor Operator	42
929-687-030	Material Handler	1,213
930-684-026	Rotary Driller Helper	40
950-382-026	Stationary Engineer	20

TABLE 5

EMPLOYMENT BY INDUSTRY

INDUSTRY	DECEMBER, 1980 EMPLOYMENT	ANNUAL AVERAGE EMPLOYMENT
Total-Nonagricultural Industries	280,678	280,627
Mining	7,732	7,594
Construction	13,526	14,728
Manufacturing	23,491	23,570
Transporation, Communication, Public Utilities	23,227	23,008
Wholesale Trade	17,776	17,555
Retail Trade	54,793	54,712
Finance, Insurance & Real Estate	12,858	12,863
Services & Miscellaneous	55,840	55,956
Public Administration*	71,445	70,611

* Includes all civilian employees of federal, state, and local governments regardless of the activity in which the employee is engaged.

SOURCE: Current Employment Statistics Program

TABLE 6

JOB SERVICE JOB OPENINGS AVAILABLE BY INDUSTRY

QUARTER ENDING DECEMBER 31, 1980

SIC	INDUSTRY	RECEIVED DURING PERIOD	FILLED DURING PERIOD
	Total	12,827	10,809
01-07	Agriculture	715	657
10-14	Mining	285	212
15-17	Construction	941	910
20-39	Manufacturing	801	872
40-49	Transportation Communication, & Public Utilities	969	709
50-51	Wholesale Trade	674	564
52-59	Retail Trade	2,764	2,178
60-67	Finance, Insurance, Real Estate	302	198
70-89	Services	4,447	3,869
91-97	Public Administration	857	589
	Nonclassifiable	72	51

SOURCE: ESARS TABLE 12.

TABLE 7

STATUS OF JOB SERVICE OPENINGS BY OCCUPATIONAL CATEGORY

QUARTER ENDING DECEMBER 31, 1980

OCCUPATION	UNFILLED - START OF QUARTER	RECEIVED DURING QUARTER	FILLED DURING QUARTER	UNFILLED - END OF QUARTER	OPEN 30 DAYS OR MORE
Total *	2,104	13,376	11,399	2,309	1,527
Prof., Tech., Mgr.	302	1,484	1,243	376	267
Clerical, Sales	421	2,665	2,028	472	254
Service	550	3,697	3,140	539	289
Agricultural	198	623	417	350	321
Processing	71	169	168	25	18
Machine Trades	63	267	238	54	33
Bench Work	25	85	60	33	18
Structural	182	1,130	1,043	152	122
Miscellaneous	290	3,246	3,053	307	204
Invalid Codes	2	10	9	1	1

*Totals across matrix will not balance as job openings are periodically cancelled.

SOURCE: ESARS TABLE 96.

TABLE 8

JOB SERVICE LISTED JOB OPENINGS

OCCUPATIONS WITH TEN OR MORE OPENINGS

END OF QUARTER - DECEMBER 31, 1980

DOT CODE	OCCUPATIONAL TITLE	UNFILLED - START OF QUARTER	RECEIVED DURING QUARTER	FILLED DURING QUARTER	UNFILLED - END OF QUARTER	OPEN 30 DAYS OR MORE
079-374-014	Nurse, Licensed Practical	1	20	7	14	7
091-227-010	Teacher, Secondary School	49	605	578	76	46
092-227-010	Teacher, Elementary	6	411	367	50	77
201-362-030	Secretary	24	118	85	23	6
203-362-010	Clerk Typist	20	139	121	21	10
209-562-010	Clerk, General	22	281	245	39	26
210-382-014	Bookkeeper	19	95	64	21	7
211-462-010	Cashier II	13	84	57	11	5
219-362-010	Administrative Clerk	24	188	126	32	12
237-367-038	Receptionist	11	77	65	13	5
290-477-014	Sales Clerk	51	329	260	42	31
299-357-014	Telephone Solicitor	1	40	19	15	5
301-474-010	Houseworker, General	8	118	103	12	8
311-477-014	Counter Attendent	66	310	205	85	32
312-474-010	Bartender	12	69	44	18	7
313-131-014	Cook, Hotel and Restaurant	0	226	172	34	20
318-687-010	Kitchen Helper	44	940	895	33	16
323-687-014	Cleaner, Housekeeper	45	149	126	25	16
355-674-014	Child Care Attendant	31	151	115	49	30
382-664-010	Janitor	30	278	209	77	39
860-381-022	Carpenter	19	89	95	10	7
869-664-014	Construction Worker	46	351	340	31	27
904-383-010	Tractor-Trailer Truck Driver	NA	31	22	15	11
905-663-014	Truck Driver, Heavy	6	76	53	14	11
906-683-022	Truck Driver, Light	16	79	75	19	13
915-467-010	Auto Service Station Attendant	13	67	54	10	7
929-687-030	Material Handler	217	2,119	2,114	91	67
930-684-020	Rotary Driller Helper	NA	50	35	14	12
950-382-026	Stationary Engineer	15	54	31	38	22

SOURCE: ESARS TABLE 96.

TABLE 9
DISTRIBUTION OF EMPLOYMENT
BY MAJOR OCCUPATIONAL GROUP
1976 AND PROJECTED 1985

MAJOR OCCUPATIONAL GROUP	1976 EMPLOYMENT	1976 PERCENT DISTRIBUTION	PROJECTED 1985 EMPLOYMENT	PROJECTED 1985 PERCENT DISTRIBUTION	PERCENT CHANGE 1976-1985
TOTAL ALL OCCUPATIONS	314,750	100.0	417,380	100.0	32.6
WHITE COLLAR WORKERS	148,650	47.2	201,960	48.4	35.9
Professional, Technical and Kindred	46,210	14.7	62,170	14.9	34.5
Managers, Officials, and proprietors	40,780	13.0	54,900	13.2	34.6
Sales Workers	16,990	5.4	22,140	5.3	30.3
Clerical Workers	44,670	14.2	62,750	15.0	40.5
BLUE COLLAR WORKERS	87,180	27.7	116,890	28.0	34.1
Craft and Kindred Workers	39,470	12.5	55,740	13.4	41.2
Operatives	32,120	10.2	41,060	9.8	27.8
Laborers, Except Farmers	15,590	5.0	20,090	4.8	28.9
SERVICE WORKERS	46,790	14.9	66,430	15.9	42.0
FARMERS AND FARM WORKERS	32,130	10.2	32,100	7.7	-0.1

Source: Montana Industry/Occupation Projections, Fifth Edition.

TABLE 10

TOTAL EMPLOYMENT BY OCCUPATIONAL CATEGORY

1976-1985

OCCUPATIONAL GROUP	1976	1985	PERCENT CHANGE
TOTAL ALL OCCUPATIONS	314,750	417,380	32.6
Professional, Technical and Kindred	46,210	62,170	34.5
Engineers, Technical	2,410	3,220	33.6
Life and Physical Scientist	1,480	1,830	23.4
Mathematical Specialist	70	90	33.3
Engineers, Science Tech.	2,850	3,870	35.8
Medical Workers, Exc. Tech.	6,300	9,440	49.8
Health Technol. & Tech.	1,420	2,040	43.1
Technicians, Exc. Health	1,010	1,370	35.0
Computer Specialist	440	590	36.3
Social Scientists	390	570	45.5
Teachers	15,200	20,700	36.1
Writers, Artists, Entertainers	3,040	4,090	34.7
Other Professional, Technical	11,600	14,380	23.9
Managers, Officials, Proprietors	40,780	54,900	34.6
Buyers, Sales, Loan Managers	5,270	8,151	54.8
Administrators, Pub. Inspectors	5,340	7,300	36.7
Other Managers, Officials, Props.	30,170	39,450	30.8
Sales Workers	16,990	22,140	30.3
Clerical Workers	44,670	62,750	40.5
Stenographers, Typists, Secretaries	12,320	17,680	43.6
Office Machine Operators	1,200	1,340	11.7
Other Clerical Workers	31,150	43,730	40.4
Craft & Kindred Workers	39,470	55,740	41.2
Construction Craft Workers	13,850	21,180	52.9
Blue Collar Worker Supv., N.E.C.	3,810	5,310	39.3
Metalworking Craft Workers, Exc.Mec	1,750	2,360	34.3
Mechanics, Repairers/Installers	11,980	16,180	35.1
Printing Trade Craft Workers	840	830	-1.2
Trans., P.U. Craft	2,030	3,080	51.6
Other Craft, Kindred Workers	5,210	6,820	30.8

SOURCE: Montana-Industry/Occupation Projections, Fifth Edition.

TABLE 10 CONT.

TOTAL EMPLOYMENT BY OCCUPATIONAL CATEGORY

1976-1985

OCCUPATIONAL GROUP	1976	1985	PERCENT CHANGE
Operatives	32,120	41,060	27.8
Operatives, Exc. Transport	20,080	26,190	30.4
Transport Equip. Operatives	12,040	14,880	23.5
Service Workers	46,790	66,430	42.0
Cleaning Service Workers	9,850	14,100	43.1
Food Service Workers	19,420	27,890	43.6
Health Service Workers	6,360	9,910	55.7
Personal Service Workers	6,480	8,960	38.4
Protective & Service Workers	2,860	4,170	46.1
Private Household Workers	1,860	1,410	-24.2
Laborers, Except Farm	15,590	20,090	28.9
Farmers & Farm Workers	32,130	32,100	- 0.1
Farmers & Farm Managers	18,220	19,670	7.9
Farm Laborers, Farm Supvrs.	13,900	12,430	-10.6

TABLE 11
TOTAL ANNUAL AVERAGE JOB OPENINGS
DUE TO GROWTH AND LABOR FORCE SEPARATIONS
BY SELECTED OCCUPATIONAL GROUP
1976-1985

OCCUPATIONAL GROUP	OPENINGS DUE TO GROWTH	OPENINGS DUE TO SEPARATIONS	TOTAL OPENINGS	PERCENT OF TOTAL
TOTAL ALL OCCUPATIONS	11,400	12,360	23,770	100.0
Professional,Technical & Kindred	1,770	1,530	3,300	13.9
Engineers, Technical	90	40	130	0.6
Life and Physical Scientist	40	30	70	0.3
Mathematical Specialist	*	*	*	0.0
Engineers, Science Tech.	110	50	160	0.7
Medical Workers, Exc. Tech.	350	240	590	2.5
Health Technol. & Tech.	70	40	110	0.5
Technicians, Exc. Health	40	30	70	0.3
Computer Specialist	20	*	20	0.1
Social Scientists	20	10	30	0.1
Teachers	610	600	1,210	5.1
Writers, Artists, Entertainers	120	90	210	0.9
Other Proffessional, Technical	310	400	710	3.0
Managers, Officials, Proprietors	1,570	1,830	3,400	14.2
Buyers, Sales, Loan Managers	320	180	500	2.1
Administrators,Pub. Inspectors	220	280	500	2.1
Other Managers, Officials, Prop	1,030	1,380	2,410	10.1
Sales Workers	570	700	1,270	5.3
Clerical Workers	2,010	1,770	3,780	15.9
Stenographers, Typists, Secre.	600	500	1,100	4.6
Office Machine Operators	20	30	50	0.2
Other Clerical Workers	1,400	1,240	2,640	11.1
Craft & Kindred Workers	1,810	1,250	3,060	12.9
Construction Craft Workers	810	490	1,300	5.5
Blue Collar Workers Supv., N.E.	170	130	300	1.3
Metalworking Craft Wrks.Exc.Mec	70	50	120	0.5
Mechanics,Repairers/Installer	470	320	790	3.3
Printing Trade Craft Workers	*	20	20	0.1
Trans., P.U. Craft	120	40	160	0.7

*Denotes occupation with annual openings of less than 10.
SOURCE: Montana Industry/Occupation Projections, Fifth Edition.

TABLE 11 CONT.
TOTAL ANNUAL AVERAGE JOB OPENINGS
DUE TO GROWTH AND LABOR FORCE SEPARATIONS
BY SELECTED OCCUPATIONAL GROUP
1976-1985

OCCUPATIONAL GROUP	OPENINGS DUE TO GROWTH	OPENINGS DUE TO SEPARATIONS	TOTAL OPENINGS	PERCENT OF TOTAL
Other Craft, Kindred Workers	180	190	370	1.6
Operatives	990	840	1,830	7.7
Operatives, Exc. Transport	680	560	1,240	5.2
Transport Equip. Operatives	310	280	590	2.5
Service Workers	2,180	2,400	4,580	19.3
Cleaning Service Workers	470	640	1,110	4.7
Food Service Workers	940	870	1,810	7.6
Health Service Workers	390	300	690	2.9
Personal Service Workers	280	370	650	2.7
Protective & Service Workers	150	130	280	1.2
Private Household Workers	-50	90	40	0.2
Laborers, Except Farm	500	450	950	4.0
Farmers & Farm Workers	*	1,590	1,590	6.7
Farmers & Farm Managers	160	1,140	1,300	5.5
Farm Laborers, Farm Supvrs.	-160	460	300	1.3

TABLE 12

SELECTED OCCUPATIONS HAVING
HIGH GROWTH RATES 1976 - 1985

OCCUPATION	TOTAL EMPLOYMENT 1976	TOTAL EMPLOYMENT 1985	PERCENT CHANGE
Professional, Technical, Kindred			
Chiropractors	90	137	52.2
Dentist	471	728	54.6
Optometrists	414	793	91.6
Podiatrists	129	234	81.4
Therapists	535	876	63.7
Veterinarians	105	167	59.0
Clinical Lab Technician	619	934	50.9
Radiologic Technician	306	482	57.5
Airplane Pilots	195	311	59.5
Urban & Regional Planners	64	111	73.4
Elementary School Teachers	6,387	10,144	58.8
Preschool, Kindergarten	838	1,506	79.7
Atheletes & Kindred Workers	231	324	56.7
Architects	216	325	50.5
Clergy	1,032	1,580	53.1
Religious, except Clergy	222	341	53.6
Managers, Official, Proprietors			
Bank, Financial Managers	2,073	3,523	70.0
Buyer, Wholesale, Retail	395	615	55.7
School Administrator elem, secondary	1,379	2,318	68.1
Managers, Superintendents, Buildings	398	601	51.0
Railroad Conductors	385	665	72.7

SOURCE: Montana Industry/Occupation Projection, Fifth Edition.

TABLE 12 (cont.)

SELECTED OCCUPATIONS HAVING
HIGH GROWTH RATES 1976 - 1985

OCCUPATION	TOTAL EMPLOYMENT 1976	TOTAL EMPLOYMENT 1985	PERCENT CHANGE
Clerical Workers			
Secretaries, Legal	388	590	52.1
Secretaries, Medical	240	517	115.4
Secretaries, Other	8,692	13,153	51.3
Billings Clerk	397	721	81.6
Meter Reader, Utilities	131	238	81.7
Teacher Aides, exc. Monitors	1,203	2,606	116.6
Miscellaneous Clerk Workers	2,933	6,139	109.3
Craft and Kindred Workers			
Carpenters and Apprentices	5,767	8,770	52.1
Bulldozer Operators	798	1,361	70.6
Cement & Concrete Finishers	136	262	92.7
Electricians & Apprentices	1,850	2,881	55.7
Plumbers, Pipefitters	1,336	2,061	54.3
Structural Metal Craft Workers	240	450	87.5
Air Cond., Heating, Refrig. Mechanic	345	487	75.4
Household Appliance Mechanic	528	874	65.5
Office Machine Repairs	222	422	90.1
Electric Power Line Installer, Repairs	437	858	96.3
Glaziers	136	216	58.8
Opticians, Lens Grinder, Polishers	278	512	84.2
Operatives			
Blasters	80	179	123.8
Drillers, Earth	644	980	52.2

TABLE 12 (Cont.)

SELECTED OCCUPATIONS HAVING
HIGH GROWTH RATES 1976 - 1985

OCCUPATION	TOTAL EMPLOYMENT 1976	TOTAL EMPLOYMENT 1985	PERCENT CHANGE
Operatives			
Photographic Process Workers	178	292	64.0
Rail Vehicle Operators	131	296	126.0
Railroad Brake Operators	508	779	53.4
Service Workers			
Lodging Quarters Cleaners, exc. Private	1,349	2,550	89.0
Building Interior Cleaners, nec.	3,334	5,154	54.6
Food Counter, Fountain Workers	1,274	2,048	60.8
Dental Assistants	397	792	99.5
Health Aides, exc. Nursing	673	1,196	77.7
Practical Nurses	1,384	2,272	64.2
Child Care Workers, exc. Private	1,990	3,748	88.3
Guards	807	1,221	51.3
Police & Detectives	1,158	1,776	52.5
Farmers and Farm Workers			
Farm Managers	860	2,015	134.3

TABLE 13

SELECTED OCCUPATIONS HAVING
ANNUAL AVERAGE OPENINGS GREATER THAN 100

OCCUPATION	ANNUAL AVERAGE OPENINGS
Professional, Technical, Kindred	
Registered Nurses	269
Elementary School Teachers	735
Preschool, Kindergarten	112
Secondary School Teachers	264
Accountants	179
Clergy	116
Managers, Officials, Proprietors	
Bank, Financial Managers	232
Sales Manager, Retail Trade	107
Officials, Administrators, Public	152
School Admin. Elementary, Secondary	158
Office Managers, nec.	158
Restaurant, Cafe, Bar Managers	210
Sales Workers	
Insurance Agents, Brokers, etc.	107
Real Estate Agents, Brokers	145
Clerical Workers	
Secretaries, other	870
Typist	142
Bookkeepers	491
Cashiers	313
Counter Clerks, exc. Food	161
Receptionist	176
Teachers Aides, exc. Monitors	211
Miscellaneous Clerical Workers	507

SOURCE: Montana Industry/Occupation Projections, Fifth Edition.

TABLE 13 (cont.)

SELECTED OCCUPATIONS HAVING
ANNUAL AVERAGES OPENINGS GREATER THAN 100

OCCUPATIONS	ANNUAL AVERAGE OPENINGS
Craft and Kindred Workers	
Carpenters and Apprentices	583
Electricians and Apprentices	168
Excavating, Grading, Machine Operator	184
Plumbers, Pipefitters, Apprentices	132
Auto Mechanics and Apprentices	232
Heavy Equipment Mechanics	195
Operatives	
Welders and Flame Cutters	124
Garage Workers, Gas Station Atten.	123
Laundry, Dry Cleaning Operator	101
Mine Operatives	108
Sawyers	108
Miscellaneous Machine Operator	124
Delivery and Route Workers	129
Truck Drivers	271
Service	
Lodging Quarter Cleaners	223
Building Interior Cleaners	438
Janitors and Sextons	447
Bartenders	277
Cooks	613
Dishwashers	116
Food Counter, Fountain Workers	133
Waiters	516
Nurses Aides, Orderlies	369
Practical Nurses	180

TABLE 13 (cont.)

SELECTED OCCUPATIONS HAVING
ANNUAL AVERAGE OPENINGS GREATER THAN 100

OCCUPATIONS	ANNUAL AVERAGE OPENINGS
Service	
Child Care Workers	344
Hairdressers, Cosmetologist	117
Guards	120
Laborers, exc. Farm	
Construction Laborer	169
Freight, Material Handlers	130
Gardeners, Groundskepper	149
Stock Handlers	128
Farmers and Farm Workers	
Farm Managers	215
Farm Laborers, Wage Workers	171

TABLE 14

SELECTED OCCUPATIONS HAVING
NEGATIVE GROWTH RATE 1976-1985

OCCUPATION	TOTAL EMPLOYMENT 1976	TOTAL EMPLOYMENT 1985	PERCENT CHANGE
Professional, Technical, Kindred			
Atmospheric, Space Scientist	241	224	-7.1
Farm Management Advisors	105	55	-47.6
Research Workers, nec.	439	350	-20.3
College & University teachers	2,232	1,769	-20.7
Manager, Official, Proprietors			
Postmasters and Mail Supervisors	296	227	-23.3
School Administrators, College	302	266	-10.9
Officials of Lodges, Unions	275	180	-34.5
Sales Workers			
Newspaper Carrier & Vendor	404	343	-15.1
Clerical Workers			
Stenographers	766	573	-25.2
Keypunch Operators	498	392	-21.3
Mail Carriers, Post Office	777	648	-16.6
Postal Clerks	831	616	-25.9
Telegraph Operators	207	168	-18.8
Enumerators & Interviewers	602	395	-65.6
Crafts and Kindred Workers			
Blacksmiths	43	25	-41.9
Compositors and Typesetters	528	474	-10.2

SOURCE: Montana Industry/Occupation Projections, Fifth Edition.

TABLE 14 (cont.)

SELECTED OCCUPATIONS HAVING
NEGATIVE GROWTH RATE 1976-1985

OCCUPATION	TOTAL EMPLOYMENT 1976	TOTAL EMPLOYMENT 1985	PERCENT CHANGE
Crafts and Kindred Workers			
Locomotive Engineer Helpers	75	64	-14.7
Bakers	388	387	-0.3
Operatives			
Grinding Machine Operatives	63	55	12.7
Clothing Ironers & Pressers	310	286	-7.7
Filer, Polisher, Sander, Buffer	150	146	-2.7
Bus Drivers	1,547	1,302	-15.8
Taxicab Drivers, Chauffeurs	233	228	-2.2
Service Workers			
Baggage Porters & Bellhops	77	40	-48.1
Barbers	577	481	16.6
Elevator Operators	72	67	-6.9
Child Care Workers, Private	1,297	1,007	-22.4
Housekeepers, Private	170	109	-35.9
Farmers and Farm Workers			
Farm Laborers, Wage Workers	12,042	10,020	-16.8

GLOSSARY OF TERMS

ACTIVE APPLICANT:	Person considered currently available for referral to job openings or employability development services.
CIVILIAN LABOR FORCE:	The number of persons 16 years and older, employed or unemployed, excluding members of the Armed Forces.
CURRENT EMPLOYMENT STATISTICS PROGRAM:	Prepares monthly estimates of current non-agricultural employment, hours, and earnings.
DOT (Dictionary of Occupational Titles):	A publication which lists about 20,000 jobs with concise definitions. A nine digit coding system is used for occupational classification.
ESARS (Employment Service Automated Reporting System):	Primarily concerned with providing cumulative data on individuals being served by Job Service. Some industry data is also provided.
LABOR SUPPLY:	The number of individuals who are qualified for and seeking work in a specific occupation.
LABOR DEMAND:	The number of job opportunities in specific occupations.
PARTIAL APPLICANTS:	An applicant who has completed a minimum of entries on the application record, and who has not been assigned an occupational code.

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